

ABSTRACT OF THE DISCLOSURE

A printed circuit board micromirror assembly (10) is disclosed. The assembly (10) includes a mirror device (12) having a mirror surface (16) that can rotate in two axes. Actuation elements (14) are attached to the mirror device (12), to permit rotation of the mirror surface (16) responsive to the energizing of drivers (30). A spacer (22) connects between a printer circuit board (20) and mirror element (12) to permit sufficient movement of the mirror surface (16). In the alternative, the printed circuit board (20) includes a recess to form a gap to permit sufficient movement of the mirror surface (16). One or more sensors (40) are disposed under the mirror surface (16) to detect mirror orientation. According to another aspect of the invention, control circuitry is arranged under the mirror surface (16) to control the deflection of mirror element (36).